Journal Question #1

Explain what it means to say $\lim_{x \to 4} x^2 = 16.$

Journal Question #2

Explain what it means to say $\lim_{x \to 4^+} x^2 = 16.$

Journal Question #3

- After initially evaluating a limit, describe what the following results would tell you what to do?

1. $\lim_{x \to 2} f(x) = \frac{0}{5}$

2. $\lim_{x \to 2} f(x) = \frac{0}{0}$

3. $\lim_{x \to 2^+} f(x) = \frac{5}{0}$

Journal Question #4

- Explain what the following limit tells you.

$$\lim_{x \to 1} f(x) = 6$$

Journal Question #5

- Explain what the following limit tells you.

$$\lim_{x \to -\infty} f(x) = 5$$

$$\lim_{x \to \infty} f(x) = -2$$

Journal Question #6

- Explain what the following limits tell you.

$$\lim_{x \to 3^-} f(x) = \infty$$

$$\lim_{x \to 3^+} f(x) = -\infty$$

Journal Question #7

- Explain how you know a function is continuous?